

# WELCOME

***Dear Participant,***

***O***n behalf of the Department of Energy and the Savannah River National Laboratory, we welcome you to the SRS/Hanford/Idaho Waste Processing Technology Exchange.

*Each of you brings a wealth of experience, technical expertise and processing knowledge that will be essential to the successful completion of the many related waste processing projects and programs. You are tremendous assets to the Department of Energy and you have our thanks for investing your time and talents in this Exchange.*

*We look forward to the enthusiastic sharing of information and the generation of innovative and challenging ideas during our time together for the benefit of each of us and the Department of Energy.*

**M. A. Gilbertson**

*Department of Energy Deputy Assistant Secretary for Engineering and Technology, Office of Environmental Management, EM 20*

**Dr. J. E. Marra**

*Associate Laboratory Director, Savannah River National Laboratory*

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## Program Organizers

**W. R. Wilmarth**

*Savannah River National Laboratory*

**R. H. Blocker**

*Washington Savannah River Company*

**C. B. Orris**

*Savannah River National Laboratory*

**E. T. Ketusky**

*Washington Savannah River Company*

# AGENDA

**Tuesday, Oct. 9, 2007**  
**Morning Sessions**

## **Session 1: Opening Session**

*Organizer/Session Chair: Bill Wilmarth (SRNL)*

Time	Title	Speakers
0800	Welcome/Introductions	Wilmarth (SRNL) Josephson (PNNL)
0810	EM Engineering and Technology Roadmap	Gilbertson/Marra (SRNL)
0840	SRS Clean-up	Davis (WSRC) Suggs (DOE-SR)
0910	ORP Clean-up	Raymond (CH2) Mauss (DOE-ORP)
0940	Break	
1000	Idaho Clean-up	Case (DOE-ID)
1030	WTP Project Status	Kruger (DOE-ORP)
1100	Closure Progress at Idaho	French (WGI-ID)
1130	Lunch	

## Tuesday, Oct. 9, 2007

### Afternoon Sessions

#### Session 2: Waste Retrieval

Organizer/Session Chair: Sharon Marra (SRNL)

Time	Title	Speakers
1230	S-112/ S-102	Barton (CH2)
1300	Tank 6 Sludge Removal	Chapman/Jolly (WSRC)
1345	Tank 5 Oxalic Acid Testing	Poirier (SRNL)
1415	C Series Tanks	Barton (CH2)
1500	Break	
1530	Tank 5 Cooling Coil Cutting	Jolly (WSRC)
1600	Tank 16 Annulus	Nguyen/Clark (WSRC)
1630	Liquid/Solid Transport Behavior in Large Tanks	Lee (SRNL)
1700	Adjourn	

#### Session 3: Technology Development

Organizer/Session Chair: Renee Spires (WSRC)

Time	Title	Speakers
1230	Rotary MicroFilter	Poirier (SRNL)
1300	Crossflow Filter Testing	Brasel (Parsons)
1330	In-Riser IX: CST or RF	Punch (WSRC) McCabe/King (SRNL)
1400	DOE Waste Chemistry	Lindner (MSU-ICET)
1430	Waste Treatment Plant Glass Formulation	Jain (WTP)
1500	Break	
1530	WTP RF Testing	Thorson (WGI)
1600	Fractional Crystallization	Herting (CH2)
1630	Wet Air Oxidation of Tank 48	Adu-Wusu (SRNL)
1700	Adjourn	

## Wednesday, Oct. 10, 2007

### Morning Sessions

#### Session 4: *Retrieval Tools*

Organizer: Mark Keefer (WSRC)

Time	Title	Speakers
0800	High Pressure Technologies	Barton (CH2)
0845	Sand Mantis Technology	Chapman (WSRC)
0915	Heels and Pebbles	Barton (CH2)
1000	Break	

#### Session 5: *Technology Development*

Organizer: Harry Harmon (PNNL)

Time	Title	Speakers
0800	Tank 48 Steam Reforming	Daniel (SRNL)
0830	Integrated Waste Treatment Unit	Case (DOE-ID)
0900	Tank 51 Actual Waste Al Leaching	Hamm (WSRC) Hay (SRNL)
0930	WTP Al Leaching	Reynolds (WGI)
1000	Break	
1030	Ceramatec Caustic Recovery	Balogopal (Ceramatec)
1100	Ion Recognition Approach to Waste Volume Reduction	Birdwell (ORNL)
1130	Open Discussion	
1200	Lunch	

## Wednesday, Oct. 10, 2007

### Morning Sessions

#### Session 6: *Facility Readiness*

*Organizer: Walt Isom (WSRC)*

Time	Title	Speakers
1030	Alpha Removal Program	Staub (WSRC)
1100	Modular CSSX Unit	Brass (WSRC)
1130	Bulk Vitrification	Brockman/Phillips (CH2)
1200	Lunch	

## Wednesday, Oct. 10, 2007

### Afternoon Sessions

#### **Session 7: Waste/Heel Volume Measurements**

*Organizer: Drew Fellingner (SRNL)*

Time	Title	Speakers
1315	FT Profilometry	Monts (MSU-ICET)
1345	SRS Digital Photography Upgrade	Fellinger (SRNL)
1415	Pipeline Unplugging	Srivastava (FIU)
1500	Open Discussion	

#### **Session 8: Characterization and Corrosion**

*Organizer: Bruce Wiersma (SRNL)*

Time	Title	Speakers
1330	Tanks 25, 28, and 44	Martino (SRNL)
1415	Tank 5 Corrosion Studies	Wiersma (SRNL)
1445	Risk-based Corrosion Control	Subramanian (SRNL)
1500	Waste Tank Integrity for PA Support	Subramanian (SRNL)
1530	Hanford Tank Corrosion	Boomer (CH2)
1600	Open Discussion	

## Wednesday, Oct. 10, 2007

### Poster Session *[Time: 1830 - 2030]*

Poster	Title	Authors
1	Pipeline Unplugging	Srivastava (FIU)
2	Pneumatic Slurry Transport	Qureshi (SRNL)
3	Performance Testing of the Rotary Microfilter	Poirier (SRNL)
4	Development and Testing of Modified Monosodium Titanate	Hobbs (SRNL)
5	Solid Liquid Interface Monitor	Roelant (FIU)
6	In Riser IX Thermal and Performance Modeling	McCabe (SRNL)
7	Hydraulic Testing of Spherical RF	Duignan (SRNL)
8	DOE Waste Chemistry	Lindner (MSU-ICET)
9	CFD Applications for High Level Waste Issues Resolution	Lee (SRNL)
10	An Engineering Scale Test Facility for Tank Remediation Technologies	Faldowski (NuVision)
11	Hanford Retrieval Activities	Barton (CH2)
12	Solubility Studies of Uranium and Plutonium in SRS Actual Waste	King (SRNL)
13	Al Leaching Pilot Plant	Josephson (PNNL)
14	Fractional Crystallization Pilot Plant	Hamilton (CH2)
15	3D Photogrammetry	Hamilton (CH2)
16	Testing of Sodium Aluminosilicate Scale Inhibitors	Wilmarth (SRNL)
17	SRS Waste Tank Residual Material Sampling Equipment	Fellinger (SRNL)
18	MSU/ICET Characterization Efforts	Monts (MSU-ICET)
19	Internet-Based Collaboration Tools for EM Engineering and Technology Support	Strack/Huckabee (WSRC)



# Thursday, Oct. 11, 2007

## Afternoon Sessions

### Session 9: Closing Session

*Organizer/Session Chair: Bill Wilmarth (SRNL)*

Time	Title	Speakers
0800	Independent Technical Review Process LL	Plodinec (SRNL)
0830	Technology Development for Hanford Alternatives	Mauss (DOE-ORP)
0900	Waste Determination – One Year Later	Thomas (WSRC)
0930	Break	
1000	Senior Managers' Round Table	
1130	Closeout Discussion	
1200	Adjourn	



# FEEDBACK

## **SRS/Hanford/Idaho Technical Exchange Atlanta Airport Marriott Oct. 9-11, 2007**

Did the technical content of the workshop meet your expectations?

Did presenters convey their content clearly and in a way that the content was understood?

Was the meeting room setup (classroom setting, size, lighting) appropriate for the presentations and room occupancy?

Was sufficient time allotted for discussion within the context of the workshop session and during breaks?

Was Atlanta a convenient location for the workshop?

Did the poster session on Wednesday evening add value to the Technical Exchange?

What improvements could be made in the format for future workshops?

*Tear on the dotted line and turn in at the registration desk.*

